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(54) CARDIAC FUNCTION EVALUATING DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To solve problems of causing invasion to a body tissue of a patient when conventionally using a catheter for determining recovery of the cardiac function of a heart of the patient when particularly therapeutically using a centrifugal blood pump, for example, as a LVAD, and being unclear in the direct relationship with evaluation of the cardiac function related to shrinkage force of the heart of the patient such as blood pressure p , and time differential dp/dt when conventionally determining a pulse power index from pulsation of a blood flow.

SOLUTION: This cardiac function evaluating device has a blood flowmeter 9 for measuring a flow rate of a centrifugal pump body 7 as an artificial heart for assisting the function of the heart 1 of the patient, and an arithmetic unit 10 for arithmetically operating the time differential of a blood flow rate measured by this blood flowmeter 9, and evaluates the cardiac function on the basis of the operation result. The arithmetic unit 10 converts the time differential of the blood flow rate into time differential of blood pressure, and arithmetically

operates a changing waveform with the lapse of the time differential of the blood flow rate or the time differential of the blood pressure or a maximum or a minimum value of the changing waveform with lapse of time.

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